

FIG.1

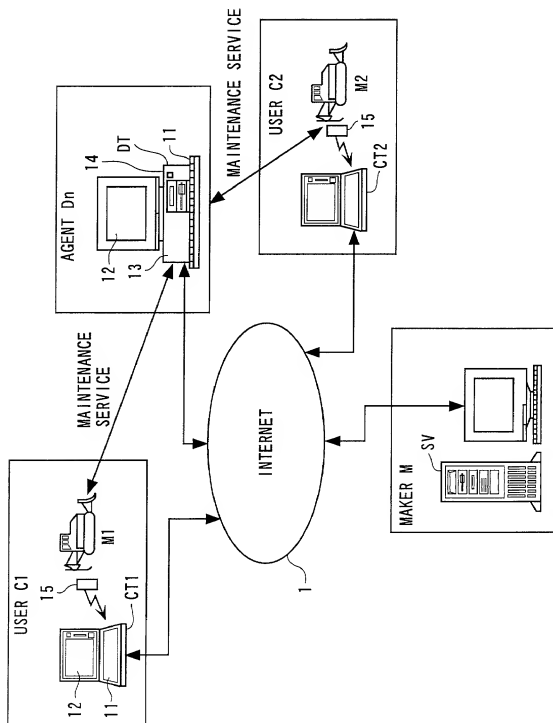
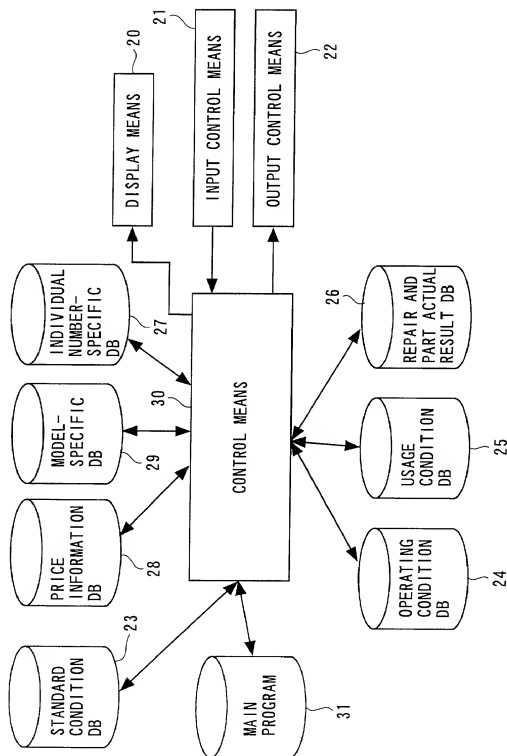


FIG. 2



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FIG. 3

STANDARD CONDITION DB

MODEL C					
MODEL B					
MODEL A					
MAINTENANCE MANAGEMENT ITEMS					
MAINTENANCE MANAGEMENT ITEM		EVERY H1	EVERY H2	EVERY H3	EVERY H4
PARTS OF MAIN BODY					
LUBRICATING OIL	ENGINE OIL		○		
	TRANSMISSION OIL			○	
	WORKING MACHINE OIL			○	
	CLEANING OF AIR CLEANER		○		
	REPLACEMENT OF FILTER			○	
UNDER THE BODY	CHECK		○		
ENGINE	VALVE CLEARANCE			○	
	FUEL INJECTION NOZZLE			○	

23C

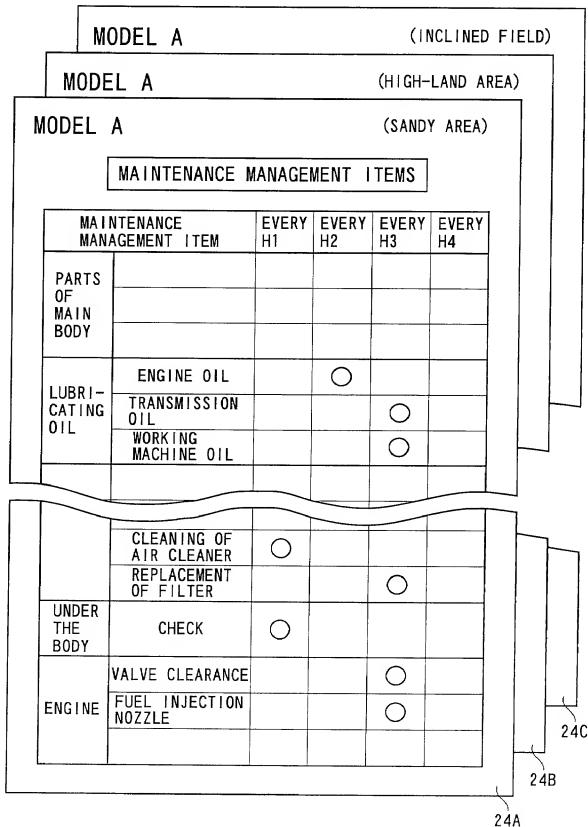
23B

23A

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FIG. 4

OPERATION ENVIRONMENT CONDITION DB

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FIG. 5

USAGE CONDITION DB

MODEL A		(CONDITIONS 3)			
MODEL A		(CONDITIONS 2)			
MODEL A		(CONDITIONS 1)			
MAINTENANCE MANAGEMENT ITEMS		LOW-QUALITY LUBRICATING OIL LOW-QUALITY FUEL			
	MAINTENANCE MANAGEMENT ITEM	EVERY H1	EVERY H2	EVERY H3	EVERY H4
PARTS OF MAIN BODY					
LUBRICATING OIL	ENGINE OIL		○		
	TRANSMISSION OIL			○	
	WORKING MACHINE OIL			○	
UNDER THE BODY	CLEANING OF AIR CLEANER	○			
	REPLACEMENT OF FILTER			○	
	CHECK	○			
ENGINE	VALVE CLEARANCE			○	
	FUEL INJECTION NOZZLE			○	

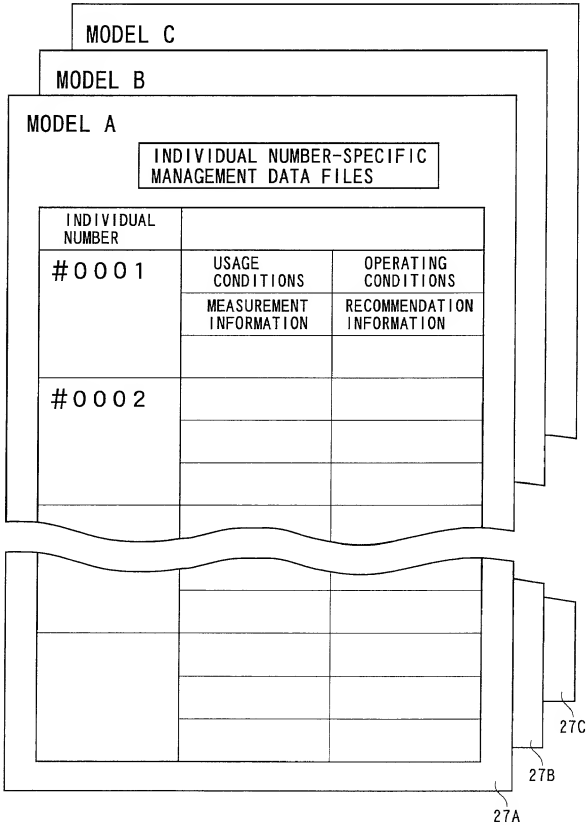
25C

25B

25A

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FIG. 6

INDIVIDUAL NUMBER-SPECIFIC DB

F I G. 7

INDIVIDUAL NUMBER-SPECIFIC MAINTENANCE MANAGEMENT DATA TABLE

INDIVIDUAL NUMBER	MODEL	CONTRACT RANK	START DATA OF THE MAINTENANCE CONTRACT	OPERATION TIME UNDER MAINTENANCE CONTRACT	OPERATION TIME	MAINTENANCE WORK HISTORY	MAINTENANCE ACTUAL RESULT VALUE [J]	USAGE CONDITIONS	OPERATING CONDITIONS
0001	A	R 1	99/3/13	30000			32,000		
0002	A	R 1	00/1/11	20000			5,000		
0003	A	R 3							
0004	A	R 2							
0001	B	R 1							
0002	B								
0001	C								

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F I G . 8

PRICE INFORMATION DB

COUNTRY	JAPAN	AGENT	X	CLIENT	A
PART NUMBER	PRICE		WORK CODE	PRICE	
AAA-BBB	¥XX, XXX-		PPP-QQQ	¥Y, YYY-	

28A

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F I G . 9

MODEL-SPECIFIC MAINTENANCE RANK TABLE

CONTRACT RANK MODEL	R 1	R 2	R 3	R 4
A	50, 000	50, 000	50, 000	100, 000
B	35, 000	50, 000	65, 000	80, 000
C				
D				

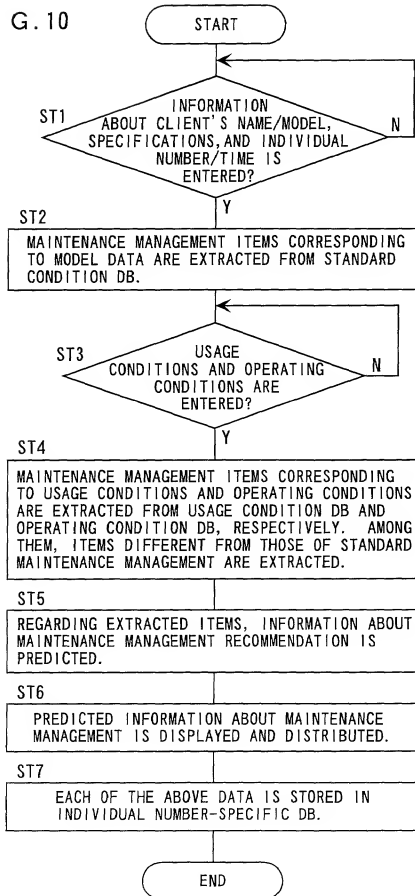
X				
Y				
Z				

29D

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F I G. 10

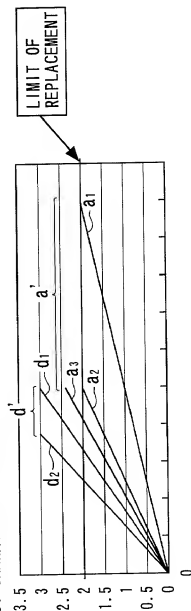


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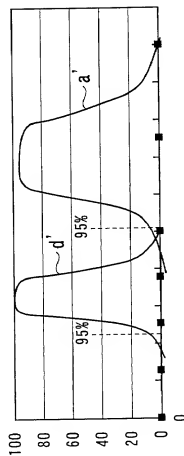
F I G. 11(A)

REPLACEMENT RATE FOR EACH PART
 HORIZONTAL AXIS: OPERATION TIME.
 VERTICAL AXIS: CHARACTERISTIC VALUE FOR EACH PART
 VARIATIONS DEPEND ON THE OPERATING
 CONDITIONS AND THE USAGE CONDITIONS.



F I G. 11(B)

REPLACEMENT RATE FOR EACH PART
 HORIZONTAL AXIS: OPERATION TIME.
 VERTICAL AXIS: REPLACEMENT PROBABILITY
 VARIATIONS DEPEND ON THE OPERATING
 CONDITIONS AND THE USAGE CONDITIONS.



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F I G. 12

MODEL, DATA		CONSTRUCTION MACHINE DATA		PUBLIC, CUSTOM MENU	
1					
CUSTOM COUNTRY DB	A B C	CONTENTS OF THE NEXT RECOMMENDATION REPLACEMENTS OF OIL AND FILTER	9,250 2000/3/30	JUMP TO:	<input type="radio"/> SERVICE MANAGER <input type="radio"/> HEAVY MACHINERY MANAGEMENT <input type="radio"/> RECOMMENDATION <input type="radio"/> MAINTENANCE CONTRACT <input type="radio"/> REPAIR HISTORY <input type="radio"/> ACCUMULATED REPAIR COST <input type="radio"/> PART BOOK <input type="radio"/> REFERENCE CHART OF RECOMMENDED PARTS
MODEL SPECIFICATIONS INDIVIDUAL NUMBER	X Y Z #12345	OPERATION TIME MAINTENANCE TIME			
PRESENT OPERATION TIME	2000/3/20 9,040	REMARKS RECOMMENDING THE REPLACEMENTS OF OIL AND FILTER.			
		COST OPTION 1 OPTION 2	\$ 200 \$ 350		
OPERATING CONDITIONS		USAGE CONDITIONS		MEASUREMENT INFORMATION	
SANDY AREA HIGH-LAND AREA		USAGE FUEL LIGHT-OIL SULFUR PART LUBRICATING OIL	LIGHT-OIL 0.50% CD-SAE 15W-40	MACHINE SURVEILLANCE INFORMATION	2000/3/20 O. K. Go 2000/3/20 O. K. Go 2000/3/20 CAUTIONS
INCLINED FIELD		EARTH AND SAND SI		MEDICAL CHECKUP	
				OIL ANALYSIS	
				UNDER-BODY MEASUREMENT	

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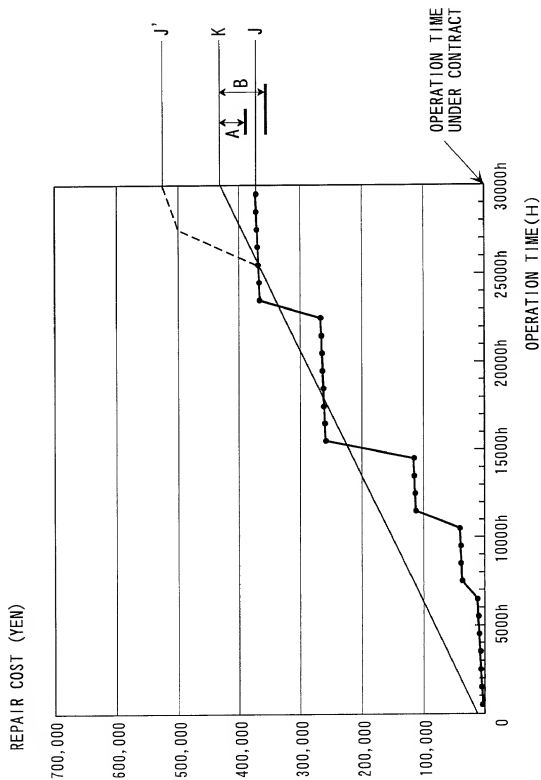
F I G. 13

RECOMMENDATION		CUSTOM MENU	
<div> <div> <div>MODEL, DATA</div> <div> <div>2</div> <div> <div>CUSTOM COUNTRY DB</div> <div> <div>A</div> <div>B</div> <div>C</div> </div> </div> </div> <div> <div>MODEL</div> <div>XYZ</div> </div> <div> <div>SPECIFICATIONS INDIVIDUAL NUMBER</div> <div>#12345</div> </div> <div> <div>PRESENT OPERATION TIME</div> <div>2000/3/20 9,040</div> </div> </div> </div>		<div> <div> <div>MENU OF RECOMMENDATION</div> <div> <div>OPTION 1</div> <div> <div>REPLACEMENTS OF OIL AND FILTER</div> <div> <div>OPERATION TIME</div> <div>9,500</div> </div> <div> <div>MAINTENANCE TIME AFTER THE NEXT</div> <div>2000/4/12</div> </div> <div> <div>ESTIMATION</div> <div>200 \$</div> </div> <div> <div>COST PER HOUR</div> <div>0.95 \$/h</div> </div> </div> </div> <div> <div>OPTION 2</div> <div> <div>REPLACEMENTS OF OIL AND FILTER (SOPHISTICATED PARTS)</div> <div> <div>OPERATION TIME</div> <div>9,750</div> </div> <div> <div>MAINTENANCE TIME AFTER THE NEXT</div> <div>2000/4/22</div> </div> <div> <div>ESTIMATION</div> <div>350 \$</div> </div> <div> <div>COST PER HOUR</div> <div>0.76 \$/h</div> </div> </div> </div> </div> </div>	
<div> <div>OPERATING CONDITIONS</div> <div> <div>SANDY AREA</div> <div>HIGH-LAND AREA</div> <div>INCLINED FIELD</div> </div> </div>		<div> <div>USAGE CONDITIONS</div> <div> <div>USAGE FUEL</div> <div> <div>LIGHT-OIL</div> <div>SULFUR PART</div> <div>LUBRICATING OIL</div> </div> </div> <div> <div>EARTH AND SAND</div> <div>\$1</div> </div> </div>	
<div> <div>MEASUREMENT INFORMATION</div> <div> <div>MACHINE SURVEILLANCE INFORMATION</div> <div> <div>2000/3/20</div> <div>O. K. Go</div> </div> </div> <div> <div>MEDICAL CHECKUP</div> <div> <div>2000/3/20</div> <div>O. K. Go</div> </div> </div> <div> <div>OIL ANALYSIS</div> <div> <div>2000/3/20</div> <div>CAUTIONS</div> </div> </div> </div>		<div> <div>JUMP TO:</div> <div> <div><input type="radio"/> SERVICE MANAGER</div> <div><input type="radio"/> HEAVY MACHINERY MANAGEMENT</div> <div><input type="radio"/> RECOMMENDATION</div> <div><input type="radio"/> MAINTENANCE CONTRACT</div> <div><input type="radio"/> REPAIR HISTORY</div> <div><input type="radio"/> ACCUMULATED REPAIR COST</div> <div><input checked="" type="radio"/> PART BOOK</div> <div>REFERENCE CHART OF RECOMMENDED PARTS</div> </div> </div>	

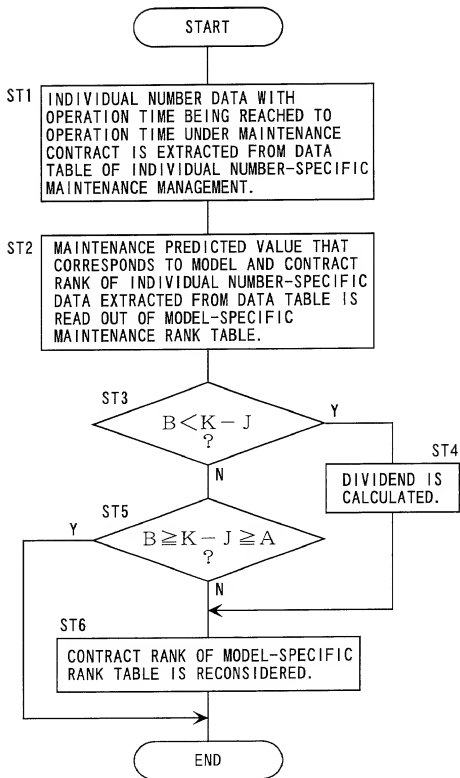
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F I G. 14

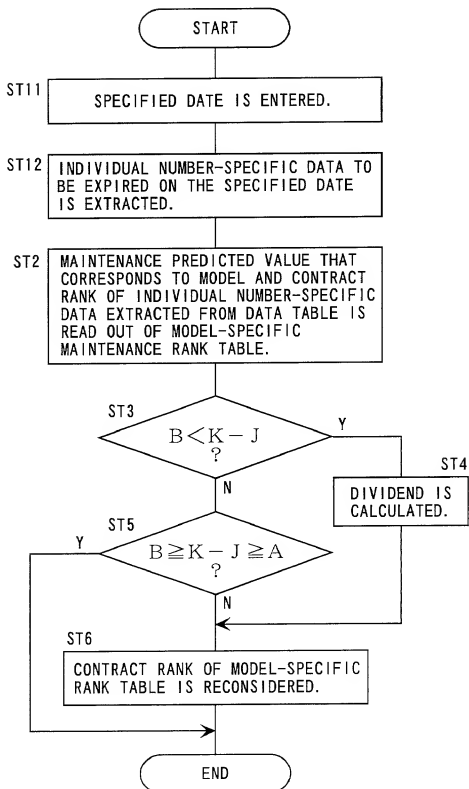


F I G. 15



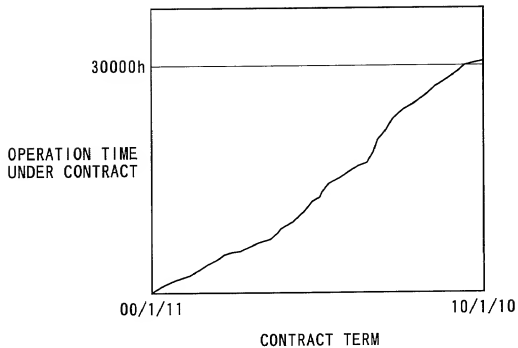
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F I G. 16



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F I G. 17



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